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CLAIM AMENDMENTS

A listing of an entire set of claims 1-44 is submitted herewith per 37 CFR §1.121 to replace all prior versions, and listings, of claims in the application.

1-20. (Cancelled)

21. (Previously Presented) An antenna, comprising:

a substrate of dielectric material; and

a plurality of electrically conductive elements disposed on a surface of the substrate to form a Yagi-Uda dipole array,

wherein the Yagi-Uda dipole array includes a driven element, a reflector, and at least one parasitic element, the reflector disposed on one side of a dipole, and the at least one parasitic element disposed on the other side of the dipole, and

wherein the driven element is separate and distinct from the at least one parasitic element.

- 22. (Previously Presented) The antenna of claim 21, wherein electromagnetic energy is coupled from the driven element to one or more of the at least one parasitic element through space and by surface waves in the substrate.
- 23. (Previously Presented) The antenna of claim 22, wherein the driven element includes a first dipole element and a second dipole element extending colinearly in opposite directions from and perpendicular to a longitudinal axis of the substrate.
- 24. (Previously Presented) The antenna of claim 23, wherein the first dipole element and the second dipole element have adjacent ends spaced apart at equal distances on either side of the longitudinal axis of the substrate.

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- 25. (Previously Presented) The antenna of claim 21, wherein the at least one parasitic element includes a reflector and at least one director.
- 26. (Previously Presented) The antenna of claim 25, wherein the reflector is disposed on a first side of the driven element; and wherein each director is disposed on a second side of the driven element.
- (Previously Presented) The antenna of claim 25,
 wherein the reflector extends linearly across a longitudinal axis of the substrate.
- 28. (Previously Presented) The antenna of claim 25, wherein the reflector is centered upon 4 longitudinal axis of the substrate.
- (Previously Presented) The antenna of claim 25,
 wherein the reflector is perpendicular to a longitudinal axis of the substrate.
- 30. (Previously Presented) The antenna of claim 25, wherein a first director of the at least one director extends linearly across a longitudinal axis of the substrate.
- 31. (Previously Presented) The antenna of claim 25, wherein a first director of the at least one director is centered upon a longitudinal axis of the substrate.

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- 32. (Previously Presented) The antenna of claim 25,
- wherein a first director of the at least one director is perpendicular to a longitudinal axis of the substrate
- 33. (Previously Presented) The antenna of claim 21, wherein the driven element and the at least one parasitic element facilitate a broadcast by the antenna of a signal having a free space wavelength.
- 34. (Previously Presented) An apparatus, comprising:

an antenna support; and

an antenna mounted on the antenna support, the antenna including

a substrate of dielectric material, and

a plurality of electrically conductive elements disposed on a surface of the substrate to form a Yagi-Uda dipole array,

wherein the Yagi-Uda dipole array includes a driven element, a reflector, and at least one parasitic element, the reflector disposed on one side of a dipole, and the at least one parasitic element disposed on the other side of the dipole, and

wherein the driven element is separate and distinct from the at least one parasitic element.

- 35. (Previously Presented) The apparatus of claim 34, wherein electromagnetic energy is coupled from the driven element to one or more of the at least one parasitic element through space and by surface waves in the substrate.
- 36. (Previously Presented) The apparatus of claim 34, wherein the driven element includes a first dipole element and a second dipole element extending colinearly in opposite directions from and perpendicular to a longitudinal axis of the substrate.

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- 37. (Previously Presented) The apparatus of claim 36, wherein the first dipole element and the second dipole element have adjacent ends spaced apart at equal distances on either side of the longitudinal axis of the substrate.
- 38. (Previously Presented) The apparatus of claim 34, wherein the at least one parasitic element includes a reflector and at least one director.
- 39. (Previously Presented) The apparatus of claim 38, wherein the reflector is disposed on a first side of the driven element; and wherein each director is disposed on a second side of the driven element.
- 40. (Previously Presented) The apparatus of claim 34, wherein the driven element and the at least one parasitic element facilitate a broadcast by the antenna of a signal having a free space wavelength.
- 41. (Previously Presented) The antenna of claim 21 wherein the driven element includes a dipole having a first and a second dipole element extending colinearly in opposite directions from and perpendicular to a substrate axis, the first and second dipole elements having adjacent ends spaced apart at equal distances on either side of the substrate axis.
- 42. (Previously Presented) The untenna of claim 21 wherein the reflector is separate and distinct from the driven element.
- 43. (Previously Presented) The apparatus of claim 34 wherein the driven element includes a dipole having a first and a second dipole element extending colinearly in opposite directions from and perpendicular to a substrate axis, the first and second dipole elements having adjacent ends spaced apart at equal distances on either side of the substrate axis.